

WHAT IS CLAIMED IS:

1. An elastic member which comprises (A) polyurethane foam obtained by agitationally mixing a urethane prepolymer, a foaming agent and a foam stabilizer, wherein said urethane prepolymer is synthesized from a polyol and a polyisocyanate in the presence of a modified silicone oil added thereto, or (B) polyurethane foam obtained by agitationally mixing a polyol, a polyisocyanate, a modified silicone oil, a foaming agent and a foam stabilizer, wherein said modified silicone oil is a modified silicone oil bearing a functional group reactive with a polyisocyanate and said foam stabilizer is a foam stabilizer which comprises a polyether-modified silicone containing 50 to 100% by weight of a polyoxyethylene unit in the polyether moiety.
2. The elastic member according to Claim 1, wherein the modified silicone oil is at least one species selected from the group consisting of alcohol-modified silicone oils, polyether-modified silicone oils and amino-modified silicone oils, and the amount of said modified silicone oil to be added is 0.1 to 5 parts by weight, based on 100 parts by weight of the prepolymer in the polyurethane foam (A) or 100 parts by weight of the polyol in the polyurethane foam (B).
3. The elastic member according to Claim 1, wherein the modified silicone oil is a silicone oil modified at one terminal thereof.
4. The elastic member according to Claim 1, wherein the modified silicone oil modified at one terminal thereof is bifunctional.

00985771-118881

5. The elastic member according to Claim 1, wherein the polyol is polyether polyol in whole or in part, and the ethylene oxide unit therein accounts for 5 to 80% by weight of all the polyol components.

6. The elastic member according to Claim 1, which is in the form of a roller, said roller having the number of cells in the range of 50 to 200 per 25 mm length of the polyurethane foam and having a friction resistance of at most 1.0 N.

7. The elastic member according to Claim 1, which is a toner supply roller for image formation equipment.

8. Image formation equipment which is equipped with the elastic member as set forth in any of the preceding claims.

9. A toner supply roller constituted of a foamed elastic member mounted on a developing apparatus which comprises a toner cartridge that accommodates a toner as a developer, the toner supply roller and a developing roller, and which forms a toner image by supplying the toner to a static latent image on the surface of a photosensitive body, characterized in that the toner supply roller has a compression spring constant in the range of 0.25 to 5.0 N / mm and a surface friction resistance in the range of 0.4 to 1.2 N.

10. The toner supply roller according to Claim 9, wherein the foamed elastic member has an average foamed cell diameter in the range of 20 to 400  $\mu m$  and the number of cells per a length of 25mm in the range of 50 to 200.

11. The toner supply roller according to Claim 9, wherein the foamed elastic member has an average foamed cell diameter in the range of 100 to 300  $\mu m$ , the number of cells per a length of

25mm in the range of 10 to 100 and a compression spring constant in the range of 0.4 to 4.0 N / mm.

12. The toner supply roller according to Claim 9, which comprises a highly electroconductive shaft and an electroconductive foamed elastic layer formed on the outside thereof.

13. The toner supply roller according to Claim 12, wherein the highly electroconductive shaft is a metallic shaft, and the electroconductive foamed elastic layer is imparted with electroconductivity by means of electroconductive carbon.

0998571 10604